

INFORMATION DISCLOSURE CITATION

(C10026100000/ OFKGF)

(Use several sheets if necessary)

ATTY. DOCKET NO.

6510-107CIP2

SERIAL NO.

09/645,078

APPLICANT

Bistrup et al.

FILING DATE

August 23, 2000

GROUP

16 3/ 1623

U.S. PATENT DOCUMENTS

RECEIVED

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
msy	AA	5,185,326	02/09/1993	Muller, et al.			FEB 06 2001
	AB	5,227,369	07/13/1993	Rosen, et al.			TECH CENTER 1600/2900
	AC	5,318,890	06/07/1994	Rosen, et al.			
	AD	5,580,862	12/03/1996	Rosen, et al.			
	AE	5,695,752	12/09/1997	Rosen, et al.			
	AF	5,827,817	10/27/1998	Larsen et al.			
	AG	5,955,325	09/21/1999	Habuchi			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
msy	AH	0 821 066 A1	01/28/1998	EP			Yes No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

msy	AI	Baumhueter, Susanne, et al., (1993) "Binding of L-Selectin to the Vascular Sialomucin CD34," <i>Science</i> , Vol. 262:436-438.
	AJ	Bertozzi, Carolyn, et al., (1995) "Sulfated Dissacharide Inhibitors of L-Selectin: Deriving Structural Leads from a Physiological Selectin Ligand," <i>Biochemistry</i> , Vol. 34(44):14271-14278.
	AK	Boukerche, Habib, et al., (1996) "A Monoclonal Antibody Directed Against A Granule Membrane Glycoprotein (GMP-140/PADGEM, P-Selectin, CD62P) Inhibits Ristocetin-Induced Platelet Aggregation," <i>British Journal of Haemathology</i> , Vol. 92:442-451.
	AL	Carter et al. (1988) "Enzymatic Sulfation of mucus glycoprotein in gastric mucosa." <i>J. Biol. Chem.</i> , Vol. 263(24):11977-11984
	AM	Celi, Alessandro, et al., (1997) "Platelet-Leukocyte-Endothelial Cell Interaction On The Blood Vessel Wall," <i>Seminars in Hematology</i> , Vol. 34(4):327-335.
	AN	Crommie, Deidre, et al., (1995) "Biosynthesis of GlyCAM-1, a Mucin-Like Ligand for L-Selectin," <i>The Journal of Biological Chemistry</i> , Vol. 270(38) :22614-22624.
	AO	Frenette, Paul S., et al., (1995) "Platelets Roll on Stimulated Endothelium <i>In Vivo</i> : An Interaction Mediated By Endothelial P-Selectin," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92:7450-7454.
msy	AP	Fukuta et al. (1997) "Molecular Cloning and Characterization of Human Keratan Sulfate Gal-6-Sulfotransferase." <i>J. Biol. Chem.</i> , Vol. 272(51):32321-32328.

EXAMINER

M. A. Moran

DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION (010126100000/ OFFICE OF THE (Use several sheets if necessary)		ATTY. DOCKET NO. 6510-107CIP2	SERIAL NO. 09/645,078
		APPLICANT Bistrup et al.	
		FILING DATE August 23, 2000	GROUP 1631 1623
RECEIVED FEB 06 2001 TECH CENTER 660/2900			
nmy ↓	AQ	Fukuta, Masakazu, et al., (1995) "Molecular Cloning and Expression of Chick Chondrocyte Chondroitin 6-Sulfotransferase," <i>The Journal of Biological Chemistry</i> , Vol. 270(31):18575-18580.	
	AR	Fukuta, Masakazu et al., (1997) "Molecular Cloning and Characterization of Human Keratan Sulfate Gal-6-Sulfotransferase," <i>The Journal of Biological Chemistry</i> , Vol. 272 (51):32321-32328	
	AS	Girard, Jean-Philippe, et al., (1995) "High Endothelial Venues (HEVs): Specialized Endothelium For Lymphocyte Migration," <i>Immunology Today</i> , Vol. 16(9):449-457.	
	AT	Habuchi, Osami, et al., (1997) "Sulfation of Sialyl Lactosamine Oligosaccharides By Chondroitin 6-Sulfotransferase," <i>Glycobiology</i> , Vol. 7(3):405-412.	
	AU	Habuchi, Osami, et al., (1996) "Enzymatic Sulfation of Galactose Residue of Keratan Sulfate By Chondroitin 6-Sulfotransferase," <i>Glycobiology</i> , Vol. 6(1):51-57.	
	AV	Habuchi, Osami, et al., (1993) "Purification of Chondroitin 6-Sulfotransferase Secreted from Cultured Chick Embryo Chondrocytes," <i>The Journal of Biological Chemistry</i> , Vol. 268(29):21968-21974.	
	AW	Habuchi, Hiroko, et al., (1998) A Molecular Characterization and Expression of Heparan-Sulfate 6-Sulfotransferase," <i>The Journal of Biological Chemistry</i> , Vol. 273(15):9208-9213.	
	AX	Hemmerich, Stefan, et al., (1995) "Structure of the O-Glycans in GlyCAM-1, An Endothelial-Derived Ligand for L-Selectin," <i>The Journal of Biological Chemistry</i> , Vol. 270(20):12035-12047.	
	AY	Hemmerich, Stefan, et al., (1994) "Sulfation-Dependent Recognition of High Endothelial Venues (HEV)-Ligands by L-Selectin and MECA 79, An Adhesion-Blocking Monoclonal Antibody," <i>The Journal of Experimental Medicine</i> , Vol. 180:2219-2226.	
	AZ	Hemmerich, Stefan, et al., (1994) "6'-Sulfated Sialyl Lewis x Is a Major capping Group of GlyCAM-1," <i>Biochemistry</i> , Vol. 33(16):4830-4835.	
	BA	Hemmerich, Stefan, et al., (1994) "Identification of the Sulfated monosaccharides of GlyCAM-1, an Endothelial-Derived Ligand for L-Selectin," <i>Biochemistry</i> , Vol. 33(16):4820-4829.	
	BB	Hillier, Marra M., et al., "The WashU-HHMI Mouse EST Project," <i>Nucleotide Query</i> (1996) Accession Number AA522184.	
	BC	Hooper, Lora V., et al., (1996) "From Legumes to Leukocytes: Biological Roles For Sulfated Carbohydrates," <i>The FASEB Journal</i> , Vol. 10:1137-1146.	
	BD	Koenig, Andrea, et al., (1997) "Selectin Inhibition: Synthesis and Evaluation of Novel Sialylated, Sulfated and Fucosylated Oligosaccharides, Including The Major Capping Group of GlyCAM-1," <i>Glycobiology</i> , Vol. 7(1):79-93.	
	BE	Lasky, Laurence A., et al., (1992) "An Endothelial Ligand for L-Selectin Is a Novel Mucin-Like Molecule," <i>Cell</i> , Vol. 69:927-938.	
	BF	Mitsuoka, Chikako, et al., (1998) An Identification of a Major Carbohydrate Capping Group of the L-Selectin Ligand on High Endothelial Venues in Human Lymph Nodes as 6-Sulfo Sialyl Lewis X," <i>The Journal of Biological Chemistry</i> , Vol. 273(18):11225-11233.	
	BG	Rosen, Steven D., et al., (1994) "The Selectins and their Ligands," <i>Current Opinion in Cell Biology</i> , Vol. 6:663-673.	
	BH	Sawada, Mikiko, et al., (1993) "Specific Expression of a Complex Sialyl Lewis X Antigen on High Endothelial Venues of Human Lymph Nodes: Possible Candidate for L-Selectin Ligand," <i>Biochemical and Biophysical Research Communications</i> , Vol. 193(1):337-347.	
nmy ↓	BI	Spiro et al. (1996) "Characterization of a rat liver Golgi sulphotransferase responsible for the 6-O-sulphation of N-acetylglucosamine residues in B-linkage to mannose: role in assembly of sialyl-galactosyl-N-acetylglucosamine 6-sulphate sequence of N-linked oligosaccharides." <i>Biochem. J.</i> , Vol. 319(1):209-216.	

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M G Moran

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INFORMATION DISCLOSURE CITATION (010261 0000/ OFKGF) (Use several sheets if necessary)		ATTY. DOCKET NO. 6510-107CIP2	SERIAL NO. 09/645,078
		APPLICANT Bistrup et al.	
		FILING DATE August 23, 2000	GROUP 1631 1623
msy	BJ	Spiro, Robert G., et al., (1998) "Characterization of a Spleen Sulphotransferase Responsible for the 6-O-Sulphation of the Galactose Residue in Sialyl-N-Acetyl-Lactosamine Sequences," <i>Biochem J.</i> , Vol. 331:265-271.	
msy	BK	Tsuboi, Shigeru, et al., (1996) "6'-Sulfo Sialyl Le ^x but Not 6-Sulfo Sialyl Le ^x Expressed on the Cell Surface Supports L-Selectin-Mediated Adhesion," <i>The Journal of Biological Chemistry</i> Vol. 271(44):27213-27216.	
msy	BL	Yoshino, Kochichiro, et al., (1997) "Studies on Selectin Blockers. 4. Structure-Function Relationship of Sulfated Sialyl Lewis X Hexasaccharide Ceramides Toward E-, P-, and L-Selectin Binding," <i>J. Med. Chem.</i> , Vol. 40:455-462.	
msy	BM	Arbonés et al. (1994) "Lymphocyte homing and leukocyte rolling and migration are impaired in L-selectin-deficient mice." <i>Immunity</i> , Vol. 1(4):247-60.	
msy	BN	Aruffo et al. (1987) "Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system." <i>Proc Natl Acad Sci U S A.</i> , Vol. 84(23):8573-7.	
msy	BO	Bierhuizen et al. (1992) "Expression cloning of a cDNA encoding UDP-GlcNAc:Gal beta 1-3-GalNAc-R (GlcNAc to GalNAc) beta 1-6GlcNAc transferase by gene transfer into CHO cells expressing polyoma large tumor antigen." <i>Proc Natl Acad Sci U S A.</i> , Vol. 89(19):9326-330.	
msy	BP	Fukuta et al. (1998) "Molecular cloning and expression of human chondroitin 6-sulfotransferase." <i>Biochem Biophys Acta.</i> , Vol. 1399(1):57-61.	
msy	BQ	Girard et al. (1995) "Cloning from purified high endothelial venule cells of hevin, a close relative of the antiadhesive extracellular matrix protein SPARC." <i>Immunity</i> , Vol. 2(1):113-23.	
msy	BR	Imai et al. (1993) "Sulphation requirement for GlyCAM-1, an endothelial ligand for L-selectin." <i>Nature</i> , Vol. 361(6412):555-7.	
msy	BS	Imai et al. (1993) "Direct demonstration of heterogeneous, sulfated O-linked carbohydrate chains on an endothelial ligand for L-selectin." <i>Glycoconj J.</i> , Vol. 10(1):34-9.	
msy	BT	Kakuta et al. (1998) "Conserved structural motifs in the sulfotransferase family." <i>Trends Biochem Sci.</i> , Vol. 23(4):129-30.	
msy	BU	Li et al. (1996) "Post-translational modifications of recombinant P-selectin glycoprotein ligand-1 required for binding to P- and E-selectin." <i>J Biol Chem.</i> , Vol. 271(6):3255-64.	
msy	BV	Malý et al. (1996) "The alpha(1,3)fucosyltransferase Fuc-TVII controls leukocyte trafficking through an essential role in L-, E-, and P-selectin ligand biosynthesis." <i>Cell</i> , Vol. 86(4):643-53.	
msy	BW	Schall (1997) "Fractalkine--a strange attractor in the chemokine landscape." <i>Immunol Today</i> , Vol. 18(4):147	
msy	BX	Shworak et al. (1997) "Molecular cloning and expression of mouse and human cDNAs encoding heparan sulfate D-glucosaminyl 3-O-sulfotransferase." <i>J Biol Chem</i> , Vol. 272(44):28008-19.	
msy	BY	Uchimura et al. (1998) "Human N-acetylglucosamine-6-O-sulfotransferase involved in the biosynthesis of 6-sulfo sialyl Lewis X: molecular cloning, chromosomal mapping, and expression in various organs and tumor cells." <i>J Biochem (Tokyo)</i> , Vol. 124(3):670-8.	

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EXAMINER MA Moran	DATE CONSIDERED 3/10/03
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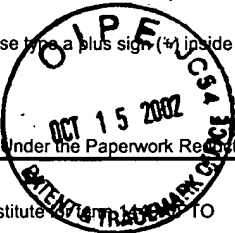


PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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 <p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;">(use as many sheets as necessary)</p>			<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">09/645,078</td> </tr> <tr> <td>Filing Date</td> <td>August 23, 2000</td> </tr> <tr> <td>First Named Inventor</td> <td>Bistrup</td> </tr> <tr> <td>Group Art Unit</td> <td>4632-1631</td> </tr> <tr> <td>Examiner Name</td> <td>M. Moran</td> </tr> <tr> <td>Attorney Docket Number</td> <td>UCAL-107CIP2</td> </tr> </table>		Application Number	09/645,078	Filing Date	August 23, 2000	First Named Inventor	Bistrup	Group Art Unit	4632-1631	Examiner Name	M. Moran	Attorney Docket Number	UCAL-107CIP2
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<p>Substitute for Transmittal TO</p>			<p style="font-size: 2em; font-weight: bold;">RECEIVED</p> <p style="font-size: 1.5em; font-weight: bold;">OCT 17 2002</p> <p style="font-size: 1.5em; font-weight: bold;">TECH CENTER 1600/2900</p>													
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U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Documents		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
msy		6,265,192		The Regents of the University of California BISTRUP et al.	07-24-2001	
msy		6,365,365		The Regents of the University of California BISTRUP et al.	04-02-2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Documents			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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Examiner Signature <i>M. Moran</i>	Date Considered 3/10/03
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